

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	212	leeper.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 07:36
L2	3	leeper.in. and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 08:28
L3	71	(match\$3 adj filter\$3) with (transmit\$5 adj filter\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 08:29
L4	0	(match\$3 adj filter\$3) with (transmit\$5 adj filter\$3) and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 08:29
L5	1	(match\$3 adj filter\$3) same (transmit\$5 adj filter\$3) and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 08:30
L6	3	(match\$3 adj filter\$3) with (transmit\$5 adj filter\$3) and (costas adj loop)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 08:30
L7	4	quantiz\$3 with "16" with level and (costas adj loop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 10:17
L8	1	quantiz\$3 with law with level and (costas adj loop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 10:18
L9	2	quantiz\$3 with "8" with level and (costas adj loop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 10:18
L11	3423	375/316	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:35

## EAST Search History

L12	3373	375/354	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:35
L13	2815	375/130	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:36
L14	62	(costas adj loop) and (match\$3 adj filter\$3) and quantiz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:36
L15	7	11 and 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:37
L16	2	12 and 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:37
L18	4	13 and 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:43
L19	366	329/308	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:43
L20	2	14 and 19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:43

## EAST Search History

S1	6	("6577679" "6647061" "6671322"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 11:09
S2	1	"10/044207"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 11:44
S3	1	"10/676503"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:04
S4	2	01/93446	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:06
S5	0	Wo01/93446	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:06
S6	183	"93446"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:07
S7	13	"ULTRAWIDE BANDWIDTH SYSTEM"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:09
S8	21	"09/684401"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:09

## EAST Search History

S9	70	"09/537264"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:15
S10	69	"09/537692"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:16
S11	12	"09/537692" and fullerton.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/04 19:16
S12	2	"3728632".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 08:15
S13	12	("3728632" "4813057" "4979186" "0461317" "5677927" "6505032"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 08:42
S14	23	(twisted adj pair) with UWB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:20
S15	2	(costas with loop) with UWB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:25
S16	3	"6556621".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:19

## EAST Search History

S17	123	(pulse with link) and UWB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:20
S18	35	(pulse adj link) and UWB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:20
S19	2	(costas with loop) same UWB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:48
S20	11	(costas with loop) and UWB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:26
S21	2	"5812081".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:26
S22	916	(costas adj loop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:48
S23	200	(costas adj loop) and matched adj filter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:59
S24	58	(costas adj loop) same matched adj filter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 09:49

## EAST Search History

S26	50	(costas adj loop) and matched adj filter and quantiz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/06 12:36
S27	1	(costas adj loop) same quantiz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 16:55
S28	23	("3701948"   "3984778"   "4085378"   "4101844").PN. OR ("4419759").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:14
S29	496	(vco or (local near2 (oscillator or generator))) same (match\$3 adj filter)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:15
S30	129	(vco or (local near2 (oscillator or generator))) with (match\$3 adj filter)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:15
S31	117	(vco or (local near (oscillator or generator))) with (match\$3 adj filter)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:15
S32	116	(vco or (local near (oscillator))) with (match\$3 adj filter)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:22
S33	11	(vco or (local near (oscillator))) with (match\$3 adj filter) and costas	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:29
S34	149	(phase adj locked adj loop) with gated	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:29
S35	1	(phase adj locked adj loop) with gated and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:29
S36	2	(phase adj locked adj loop) same gated and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:30
S37	12	(phase adj locked adj loop) and gated and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:34
S38	1	(VCO or (local near2 generator)) with (save or reduce) with power and gated and uwb	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:35
S39	5	(VCO or (local near2 generator)) with ((save or reduce) with power) and gated	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:38

## EAST Search History

S40	149	(VCO or (local near2 generator)) with ((save or reduce) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:38
S41	6	(VCO or (local near2 generator)) with ((save or reduce) with power) and activate\$1 with receive\$1 with signal	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:40
S42	3	(VCO or (local near2 generator)) with ((save or reduce) with power) same activate\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:42
S43	1	(VCO or (local near2 generator)) with on with off	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:43
S44	2	(VCO or (local near2 generator)) same (on with off)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:44
S45	6	(VCO or (local near2 generator)) and (on with off)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:44
S46	2072	(VCO or (local near2 generator)) with (activate\$3 or turn)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:45
S47	494	(VCO or (local near2 generator)) with (activate\$3 or turn) and ((sav\$3 or reduc\$3) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:46
S48	90	(VCO or (local near2 generator)) with (activate\$3 or (turn adj on)) and ((sav\$3 or reduc\$3) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:46
S49	10	(VCO or (local near2 generator)) with (activate\$3 or (turn adj on)) same ((sav\$3 or reduc\$3) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:51
S50	306	(VCO or (local near2 generator)) with ((sav\$3 or reduc\$3) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 10:51
S51	6	(VCO or (local near2 generator)) near ((sav\$3 or reduc\$3) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 19:29
S52	72	"09/083993"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 16:02
S53	0	(VCO or (local near2 generator)) near (match adj filter) and (costas adj loop)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 16:40

## EAST Search History

S54	0	(VCO or (local near2 generator)) near (match\$3 adj filter) and (costas adj loop)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 16:40
S55	1	(VCO or (local near2 generator)) near5 (match\$3 adj filter) and (costas adj loop)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 16:40
S56	9	(VCO or (local near2 generator)) near15 (match\$3 adj filter) and (costas adj loop)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 16:41
S57	9	(VCO or (local near2 generator)) with (match\$3 adj filter) and (costas adj loop)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 16:41
S58	168	(costas adj loop) and quantiz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 16:55
S59	62	(costas adj loop) and quantiz\$3 and (match\$3 adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 16:55
S60	11	(VCO or (local near2 generator) or PLL or (phase adj locked adj loop)) near ((sav\$3 or reduc\$3 or low) with power)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 19:32
S61	135	((VCO or (local near2 generator) or PLL or (phase adj locked adj loop)) with ((sav\$3 or reduc\$3 or low) with power)) with switch	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 20:54
S62	10	((VCO or (local near2 generator) or PLL or (phase adj locked adj loop)) with ((sav\$3 or reduc\$3 or low) with power)) with switch with (input with signal)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 19:54
S63	24	((VCO or (local near2 generator) or PLL or (phase adj locked adj loop)) with ((sav\$3 or reduc\$3 or low) with power)) same switch with (input with signal)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 19:55
S64	80	(PLL or (phase adj locked adj loop)) with (match\$3 adj filter\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 21:13
S65	148	(PLL or (phase adj locked adj loop)) and UWB	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 21:19



## EAST Search History

S66	7	(PLL or (phase adj locked adj loop)) with UWB	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 21:15
S67	29	(PLL or (phase adj locked adj loop)) same UWB	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 21:15
S68	31	(PLL or (phase adj locked adj loop)) and UWB and (match\$3 adj filter\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 07:36



Welcome United States Patent and Trademark Office

**□ Search Results****BROWSE****SEARCH****IEEE XPLORE GUIDE****SUPPORT**

Results for "( ( costas loop&lt;in&gt;metadata ) &lt;and&gt; ( quantizer&lt;in&gt;metadata ) )"

e-mail printer

Your search matched 1 of 1335860 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

**» Search Options**[View Session History](#)[New Search](#)**Modify Search****Search** ☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract**» Key**

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

**view selected items** [Select All](#) [Deselect All](#)

- ☐ 1. **Universal carrier recovery for APK signals**  
Moss, J.F.; Beyer, J.B.;  
[Proceedings of the IEEE](#)  
Volume 71, Issue 7, July 1983 Page(s):905 - 907  
[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IEEE JNL  
[Rights and Permissions](#)

Indexed by  
[Help](#) [Contact Us](#) [Privacy & Security](#)

© Copyright 2006 IEEE - All Rights